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# Kundendienst-Handbuch

## Service Manual

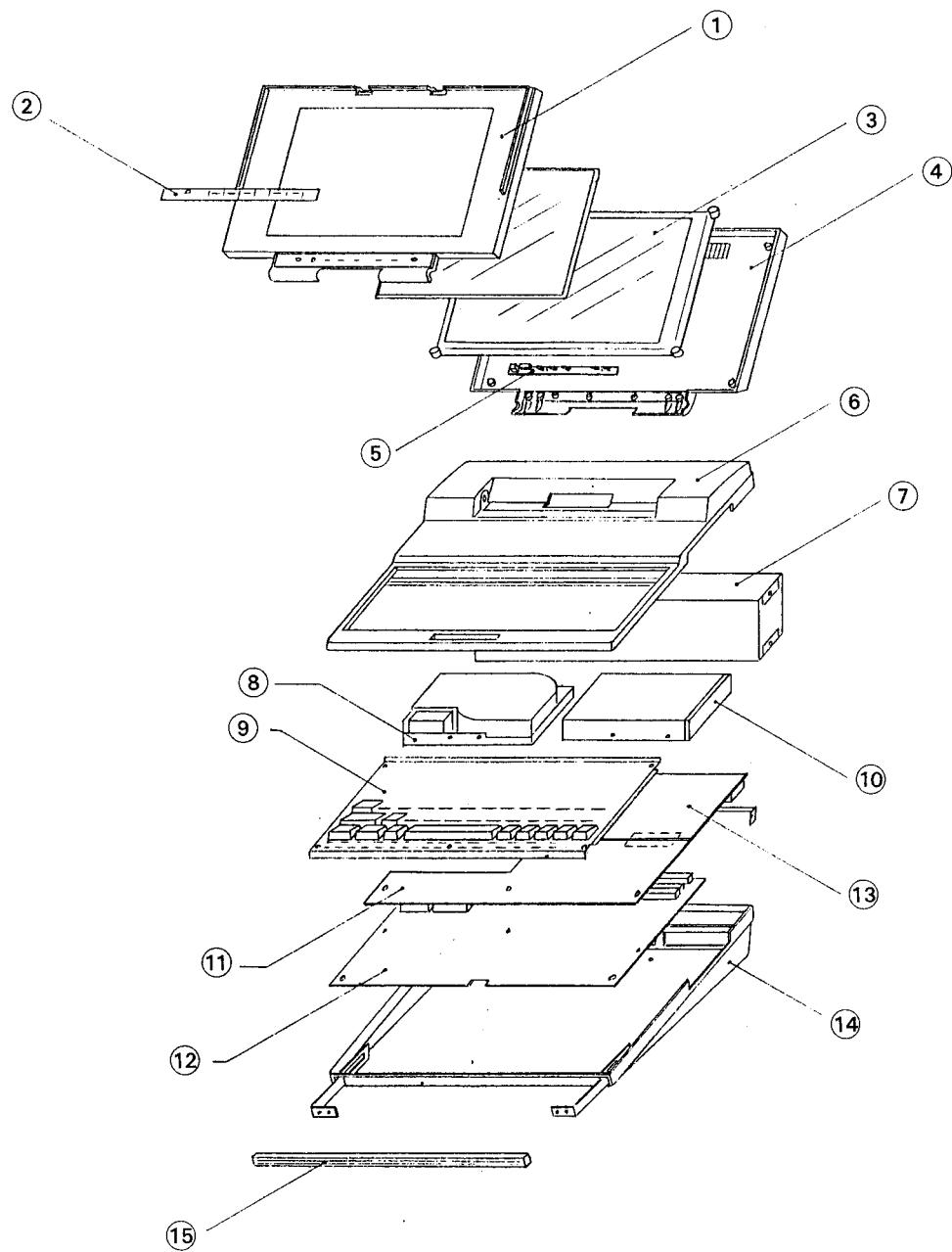
# PERSONAL COMPUTER

## PC 7640

Ident-Nr.: 36866



## Exploded view



# Ersatzteilliste für Hauptplatine PC 7640

## Parts list for Main PCB PC 7640

Bestell-Nr. Part.-No.	Bezeichnung	Description	Zeich.-Pos. Ref.-No.	Preisgruppe
<b>Verschiedenes/Miscellaneous</b>				
44 629 00	Quarz 14,31818 MHz	Crystal 14,31818 MHz	X 3	C 5
44 630 00	Quarz 32,768 kHz	Crystal 32,768 kHz	X 4	B 0
44 628 00	Quarz 16 MHz	Crystal 16 MHz	X 5	C 5
44 631 00	Quarz 9,6 MHz	Crystal 9,6 MHz	X 6	C 4
44 632 00	Quarz 14,7456 MHz	Crystal 14,7456 MHz	X 7	C 5
11 241 00	Diode 1 N 4148	Diode 1 N 4148	D 1, 2	A 2
44 646 00	Verzögerungsleitung	Delay line	15 E	D 5
44 648 00	Piepsr	Buzzer	BZ	B 2
44 649 00	Batterie	Battery	BAT	D 3
34 805 00	Buchse	Socket	P 7	B 8
34 806 00	Buchse	Socket	P 5	B 7
44 650 00	Buchse	Socket	P 6	C 0
44 636 00	Widerstand/Netzwerk	Resistor/Network	RN 1, RN 2	B 2
44 637 00	Widerstand/Netzwerk	Resistor/Network	RN 3, RN 4	B 2
44 638 00	Widerstand/Netzwerk	Resistor/Network	RN 5	A 3
44 639 00	Widerstand/Netzwerk	Resistor/Network	RN 6-RN 10	A 3
44 640 00	Widerstand/Netzwerk	Resistor/Network	RN 11	A 3
44 641 00	Widerstand/Netzwerk	Resistor/Network	RN 12	A 3
44 642 00	Widerstand/Netzwerk	Resistor/Network	RN 13, RN 15	A 3
44 643 00	Widerstand/Netzwerk	Resistor/Network	RN 14	A 3

# Ersatzteilliste für Hauptplatine PC 7640

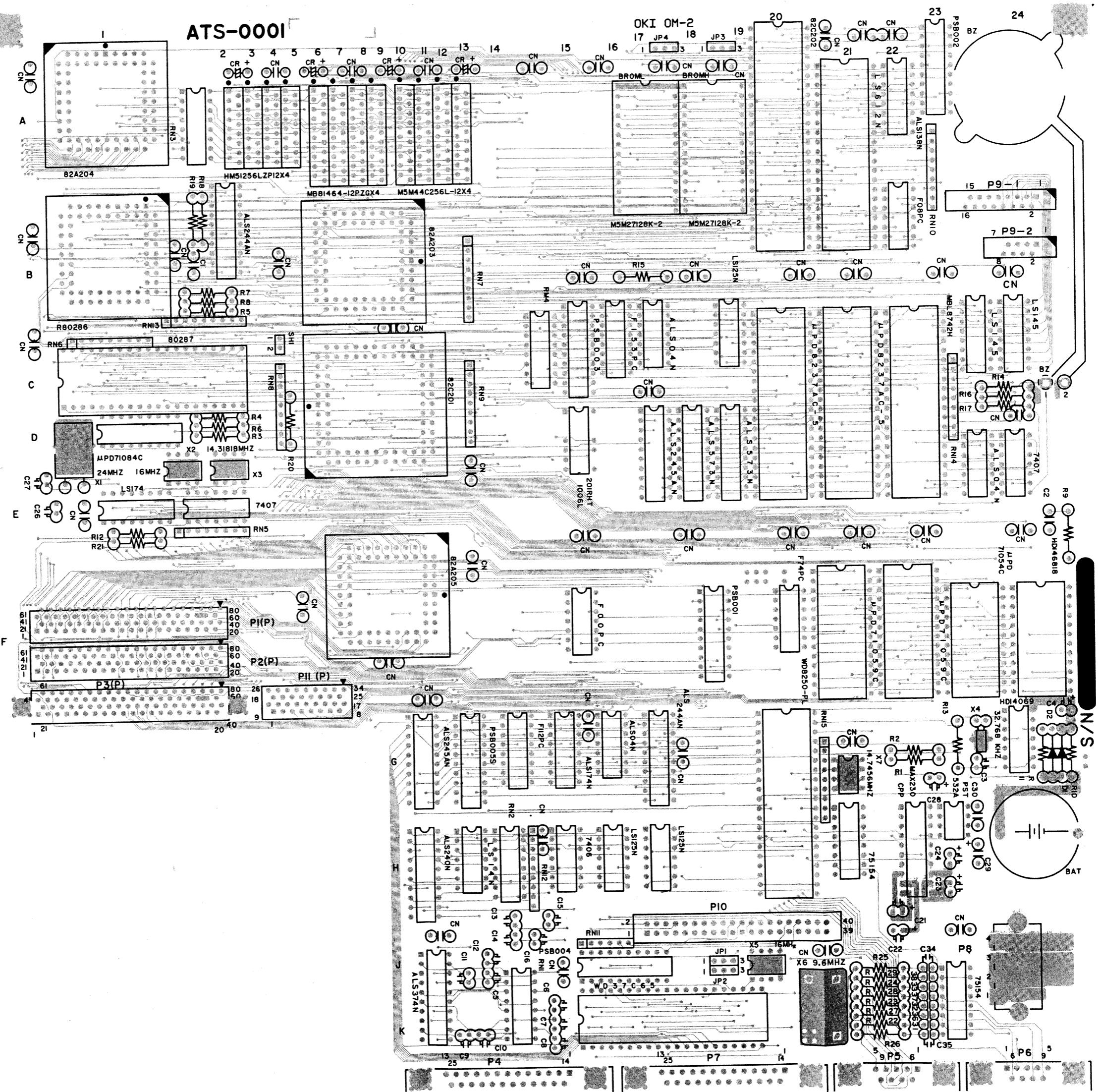
## Parts list for Main PC 7640

Bestell-Nr. Part.-No.	Bezeichnung	Description	Zeich.-Pos. Ref.-No.	Preisgruppe
44 585 00	Hauptplatine	Main PCB	12	*
<b>IC</b>				
44 586 00	IC 80286-8 µP	IC 80286-8 µP	1 B	F 4
44 587 00	IC 27128	IC 27128	16 A	D 2
44 588 00	IC 27128	IC 27128	18 A	D 2
40 926 00	IC 82 C 201 LSI	IC 82 C 201 LSI	8 D	E 1
40 920 00	IC 82 C 202 LSI	IC 82 C 202 LSI	20 A	E 1
40 922 00	IC 82 A 203 LSI	IC 82 A 203 LSI	8 B	E 1
44 589 00	IC 82 A 204 LSI	IC 82 A 204 LSI	1 A	E 1
44 590 00	IC 82 A 205 LSI	IC 82 A 205 LSI	8 F	E 1
44 591 00	IC µPD 8237 AL-5	IC µPD 8237 AL-5	20 C, 21 C	D 1
44 592 00	IC µPD 71059 C	IC µPD 71059 C	21 F, 22 F	C 3
44 593 00	IC µPD 71054 C	IC µPD 71054 C	23 F	C 3
44 594 00	IC MBL 8042-144 P	IC MBL 8042-144 P	22 C	D 1
44 595 00	IC HD 146818	IC HD 146818	24 F	C 8
44 596 00	IC WD 37 C 65 PL	IC WD 37 C 65 PL	16 K	E 4
44 597 00	IC WD 16 L 450 PL	IC WD 16 L 450 PL	20 G	D 8
44 598 00	IC M5M 44C256 L-12	IC M5M 44C256 L-12	10 A-13 A	E 7
44 599 00	IC M5M 4256 L-12	IC M5M 4256 L-12	2 A-5 A	C 7
44 600 00	IC M5M 4464 L-12	IC M5M 4464 L-12	6 A-9 A	C 7
44 601 00	IC PAL 16 L 8 A (PSB 001)	IC PAL 16 L 8 A (PSB 001)	18 F	C 3
44 602 00	IC PAL 16 L 8 A-2 (PSB 002)	IC PAL 16 L 8 A-2 (PSB 002)	23 A	C 3
44 603 00	IC PAL 16 L 8 A (PSB 003)	IC PAL 16 L 8 A (PSB 003)	15 C	C 3
44 604 00	IC PAL 16 L 8 A-2 (PSB 004)	IC PAL 16 L 8 A-2 (PSB 004)	16 J	C 3
44 605 00	IC PAL 16 L 8 A-2 (PSB 005 S)	IC PAL 16 L 8 A-2 (PSB 005 S)	13 G	C 3
40 927 00	IC 74 ALS 04	IC 74 ALS 04	23 E, 17 C, 16 G	A 5
40 925 00	IC 74 ALS 244	IC 74 ALS 244	2 B, 17 G	B 2
40 936 00	IC 74 ALS 245	IC 74 ALS 245	12 G, 17 E	B 2
32 167 00	IC 74 LS 14	IC 74 LS 14	13 H	A 6
44 606 00	IC 74 HCT 612	IC 74 HCT 612	21 A	D 3
34 767 00	IC 74 LS 125	IC 74 LS 125	16 H, 17 H, 19 C	A 7
34 768 00	IC 74 LS 174	IC 74 LS 174	1 E	A 7
44 607 00	IC 74 ALS 174	IC 74 ALS 174	15 G	B 1
44 608 00	IC 74 ALS 240	IC 74 ALS 240	12 H	B 4
40 917 00	IC 74 ALS 138	IC 74 ALS 138	22 A	A 8
44 609 00	IC 74 ALS 374	IC 74 ALS 374	12 K	B 3
44 610 00	IC 74 ALS 573	IC 74 ALS 573	18 E, 19 E	B 4
40 918 00	IC 74 F 00	IC 74 F 00	15 F	A 5
40 928 00	IC 74 F 08	IC 74 F 08	22 B	A 5
44 611 00	IC 74 F 74	IC 74 F 74	20 F	A 6
44 612 00	IC 74 F 112	IC 74 F 112	14 G	B 2
40 909 00	IC 74 F 153	IC 74 F 153	16 C	A 8
40 985 00	IC 7407	IC 7407	2 E, 24 E	B 0
26 344 00	IC 74 LS 145	IC 74 LS 145	23 C, 24 C	B 5
15 241 00	IC 7406	IC 7406	15 H	A 7
24 184 00	IC 14069	IC 14069	24 G	B 4
44 613 00	IC MAX 230 CPP	IC MAX 230 CPP	22 H	D 6
40 966 00	IC 75154	IC 75154	22 K, 23 K	B 2
44 614 00	IC PST 532 A	IC PST 532 A	23 H	B 3

\* Preis auf Anfrage

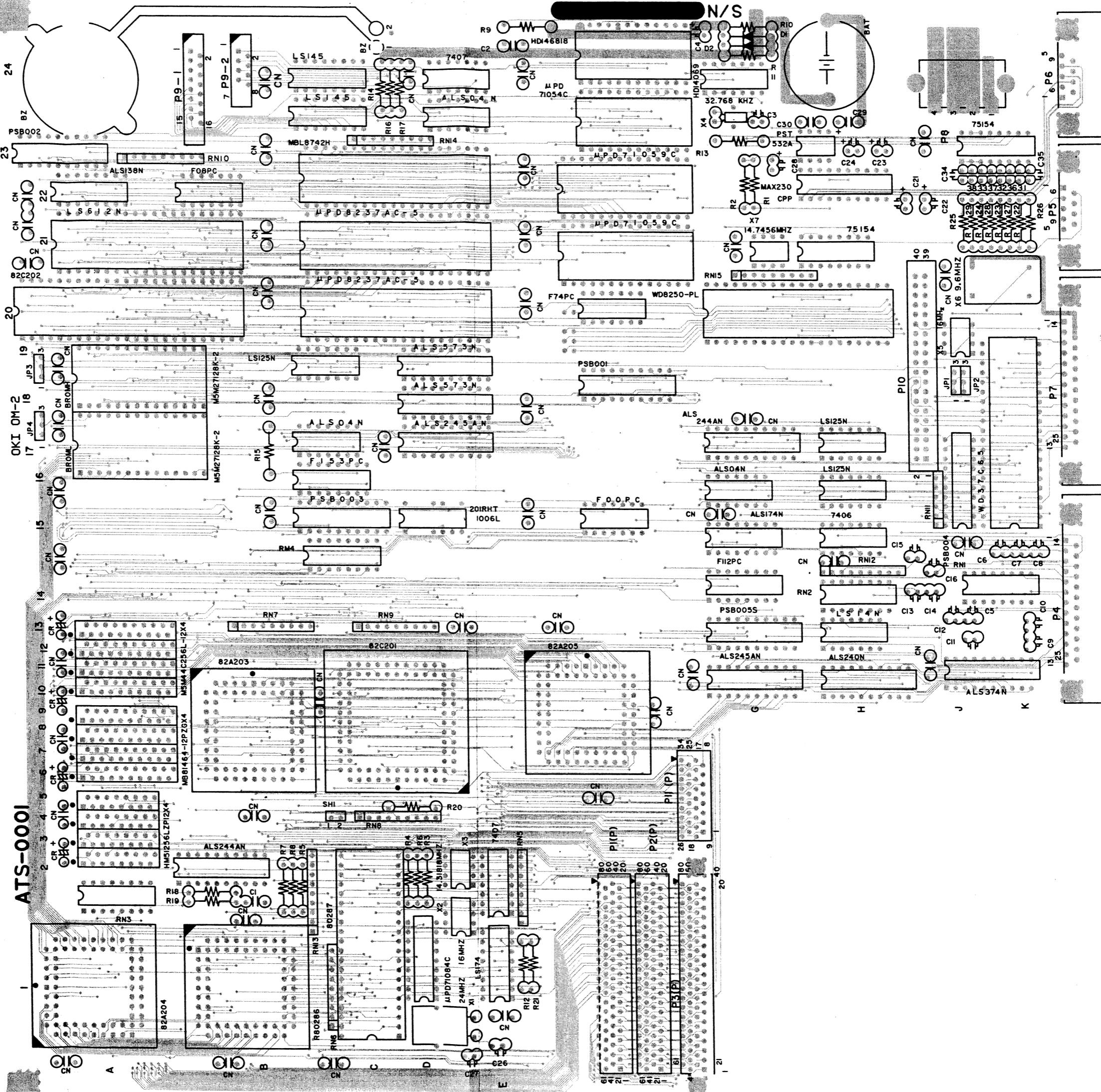
## Main P.C.B.

## Component side



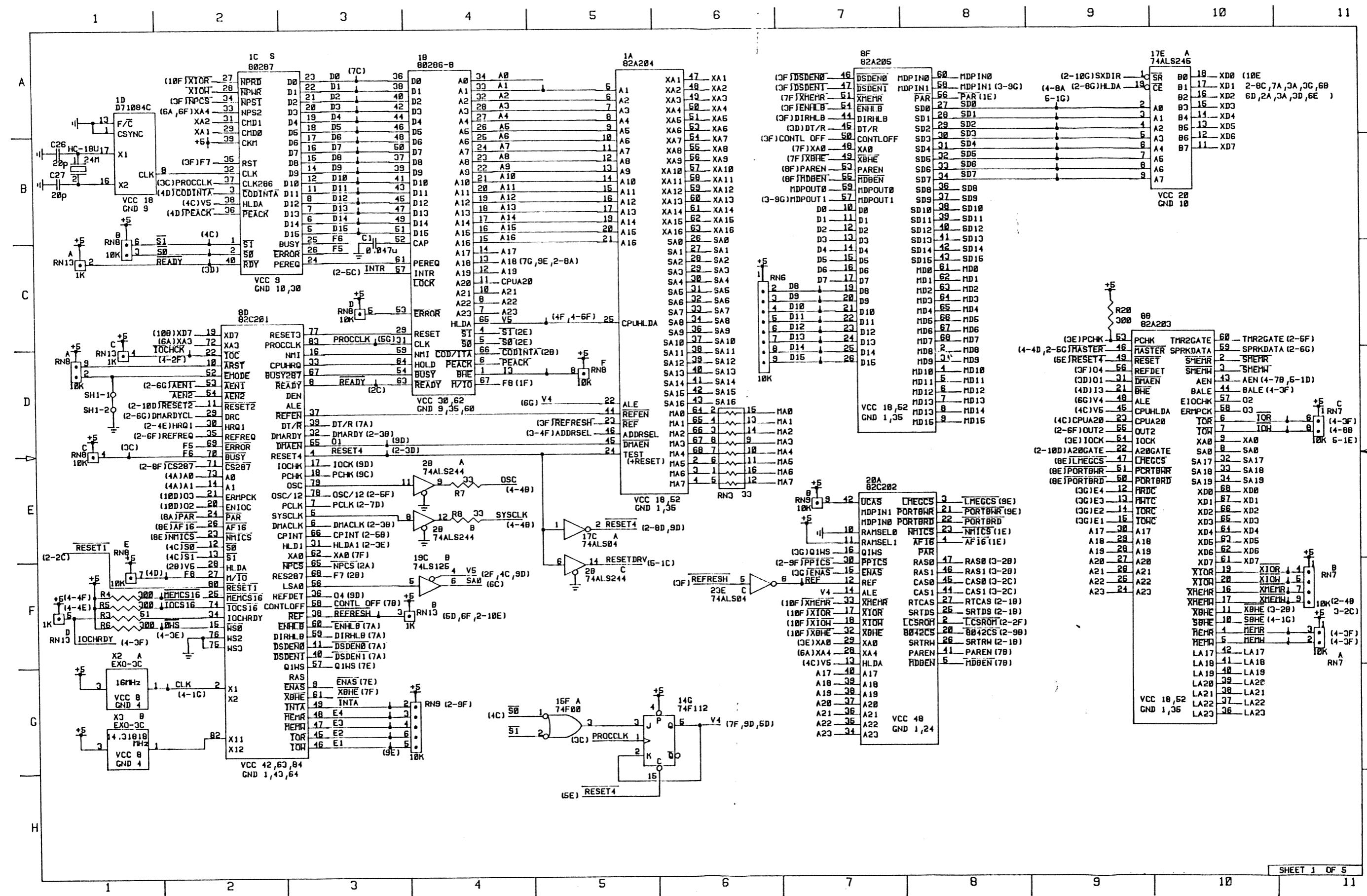
## Main P.C.B.

## **Soldering side**



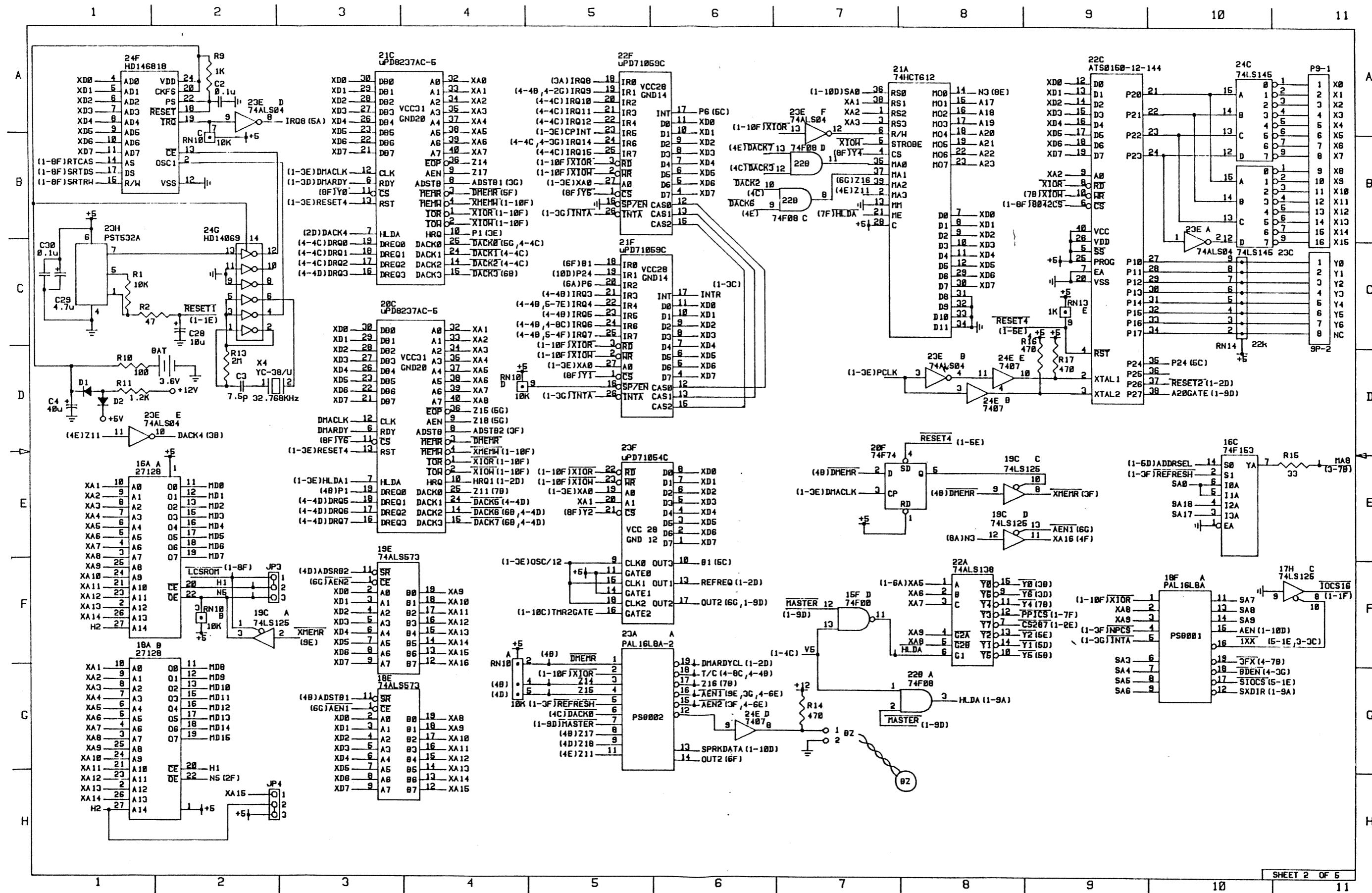
# Main P.C.B.

## Schematic diagram 1



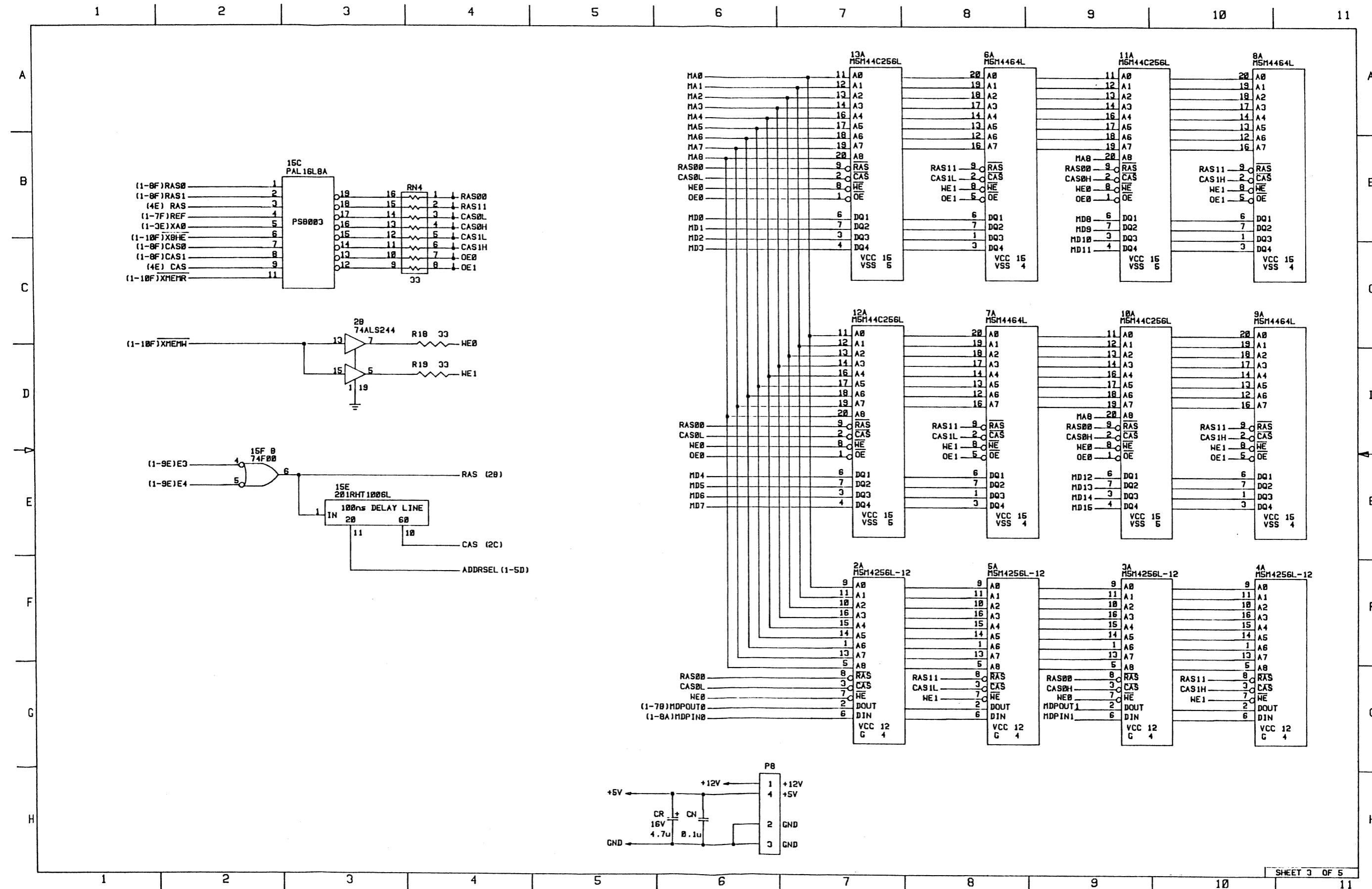
## Main P.C.B.

## Schematic diagram 2



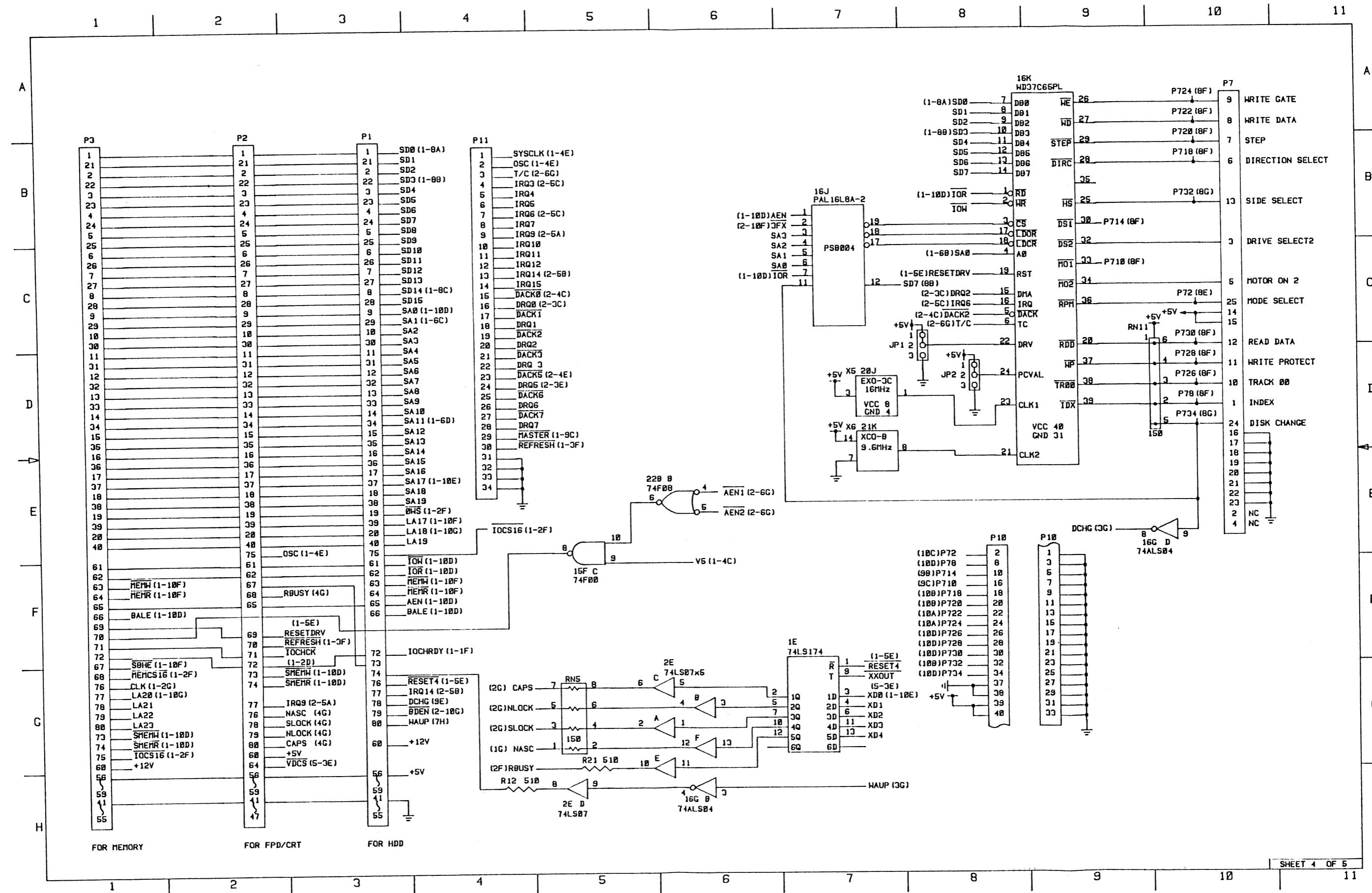
# Main P.C.B.

## Schematic diagram 3



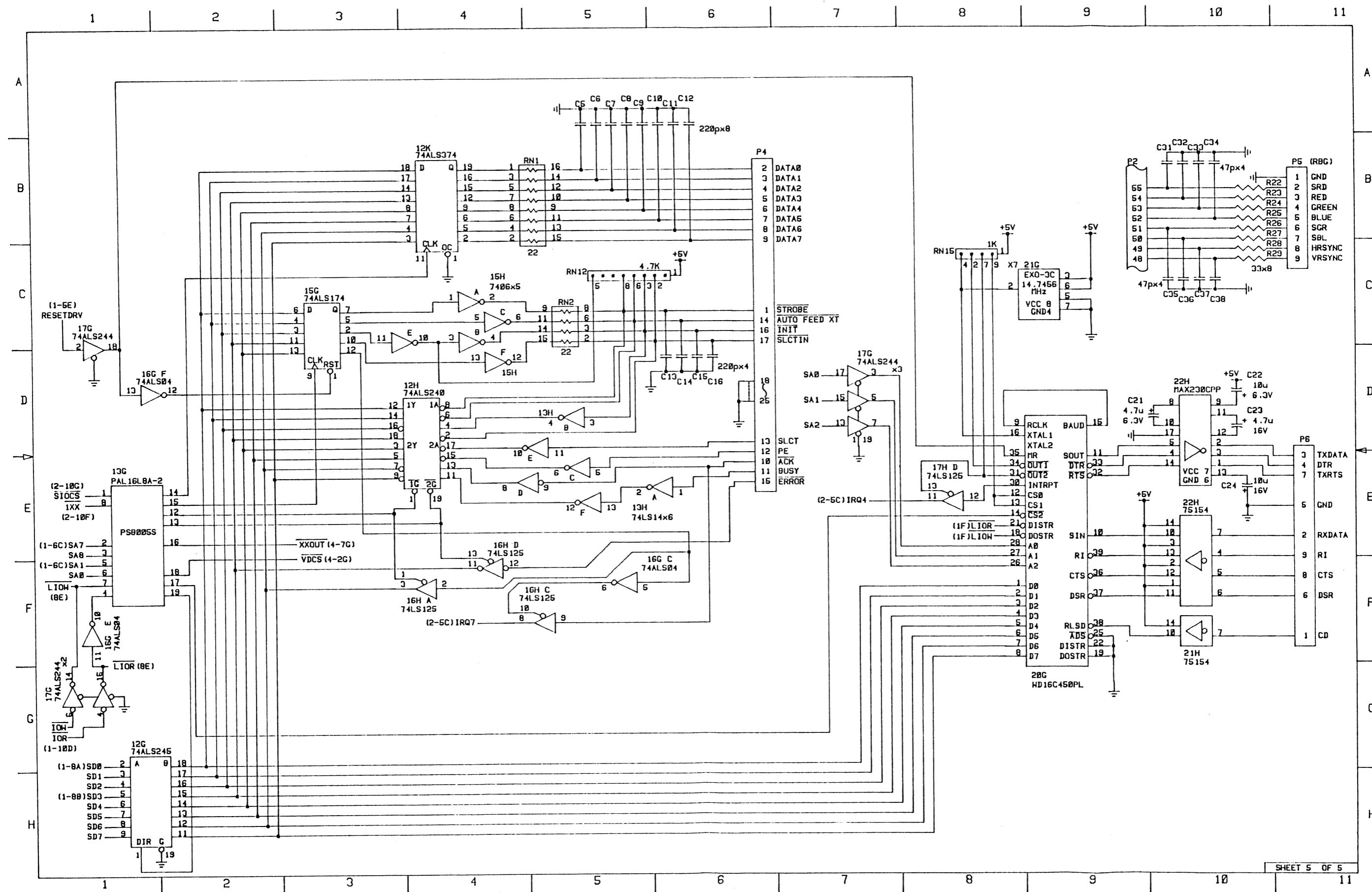
# Main P.C.B.

Schematic diagram 4



# Main P.C.B.

## Schematic diagram 5



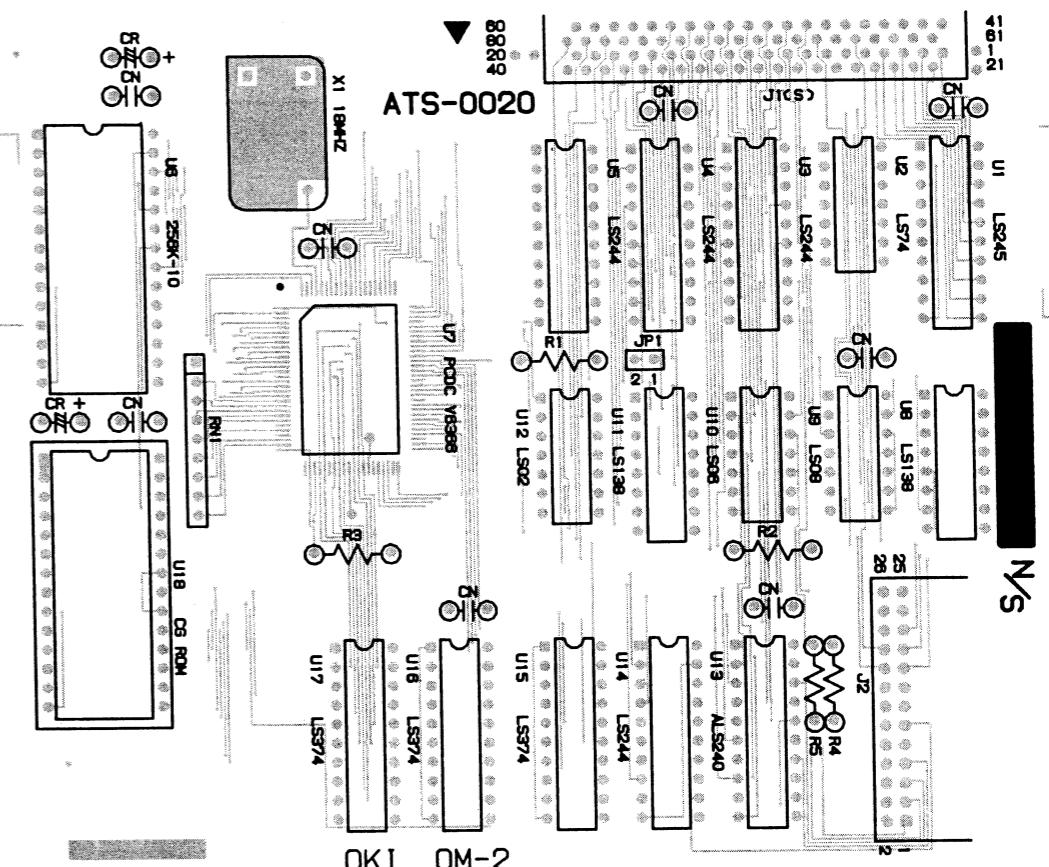
# Ersatzteilliste für FPD Interface PC 7640

Parts list for FPD Interface PC 7640

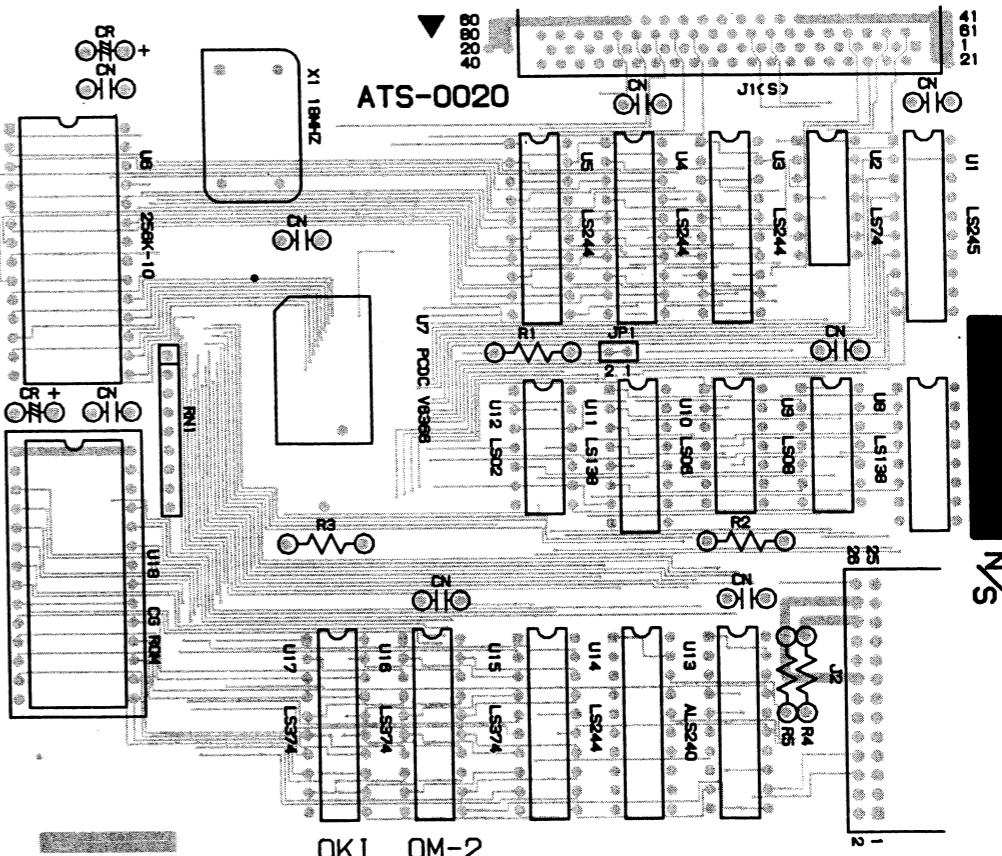
Bestell-Nr. Part.-No.	Bezeichnung	Description	Zeich.-Pos. Ref.-No.	Preisgruppe
44 615 00	FPD Interface	FPD Interface	13	I 0
<b>IC</b>				
34 772 00	IC 74 LS 245	IC 74 LS 245	U 1	B 0
29 231 00	IC 74 LS 74	IC 74 LS 74	U 2	B 1
26 354 00	IC 74 LS 244	IC 74 LS 244	U 3-U 5, U 14	B 9
44 616 00	IC CXK 58256 PM-12	IC CXK 58256 PM-12	U 6	D 9
44 617 00	IC V 6366 B-F	IC V 6366 B-F	U 7	F 0
32 095 00	IC 74 LS 138	IC 74 LS 138	U 8, U 11	A 6
29 224 00	IC 74 LS 08	IC 74 LS 08	U 9	A 9
32 166 00	IC 74 LS 06	IC 74 LS 06	U 10	A 5
29 290 00	IC 74 LS 02	IC 74 LS 02	U 12	B 0
44 608 00	IC 74 ALS 240	IC 74 ALS 240	U 13	B 4
32 171 00	IC 74 LS 374	IC 74 LS 374	U 15-U 17	B 0
44 618 00	IC M5L 2764 K-2	IC M5L 2764 K-2	U 18	D 2
<b>Verschiedenes/Miscellaneous</b>				
44 633 00	Quarz 12 MHz	Crystal 12 MHz	X 1	C 4
44 639 00	Widerstand/Netzwerk	Resistor/Network	RN 1	A 3

# FPD Interface

## Component side

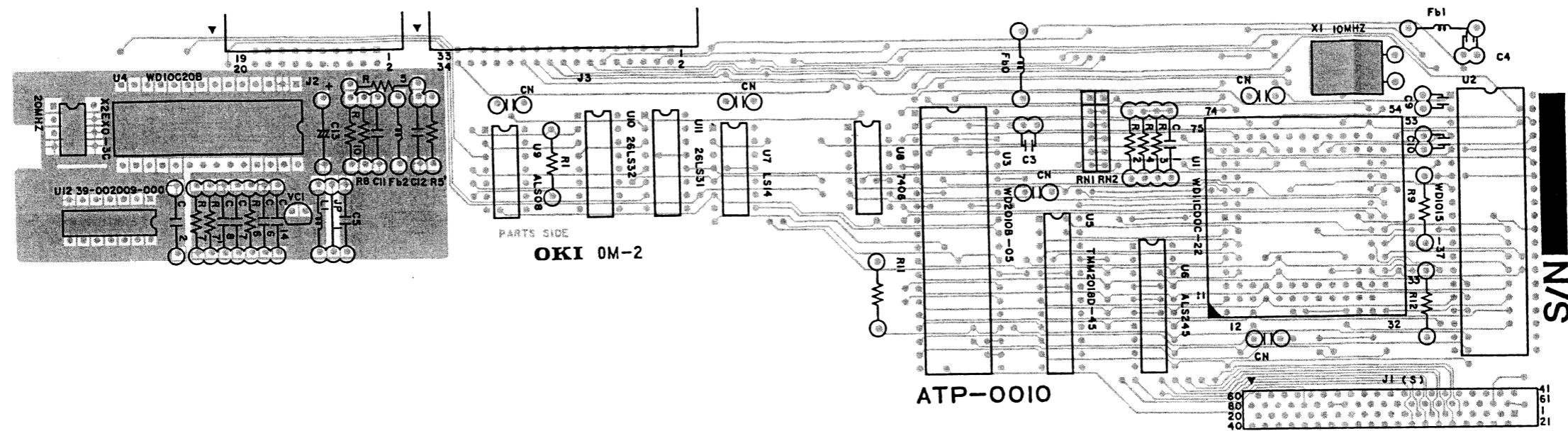


## Soldering side



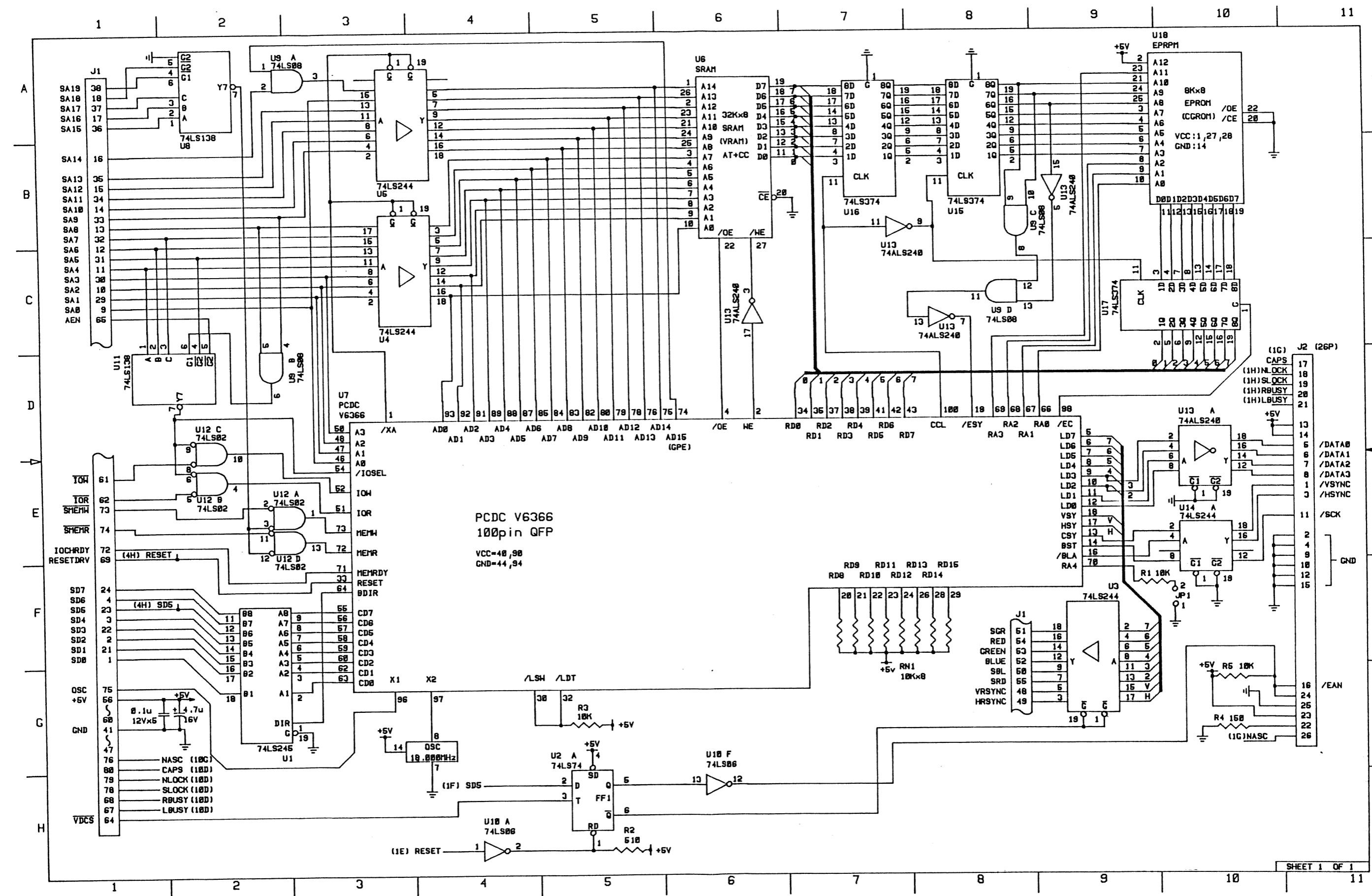
## HDD Interface

### Component side

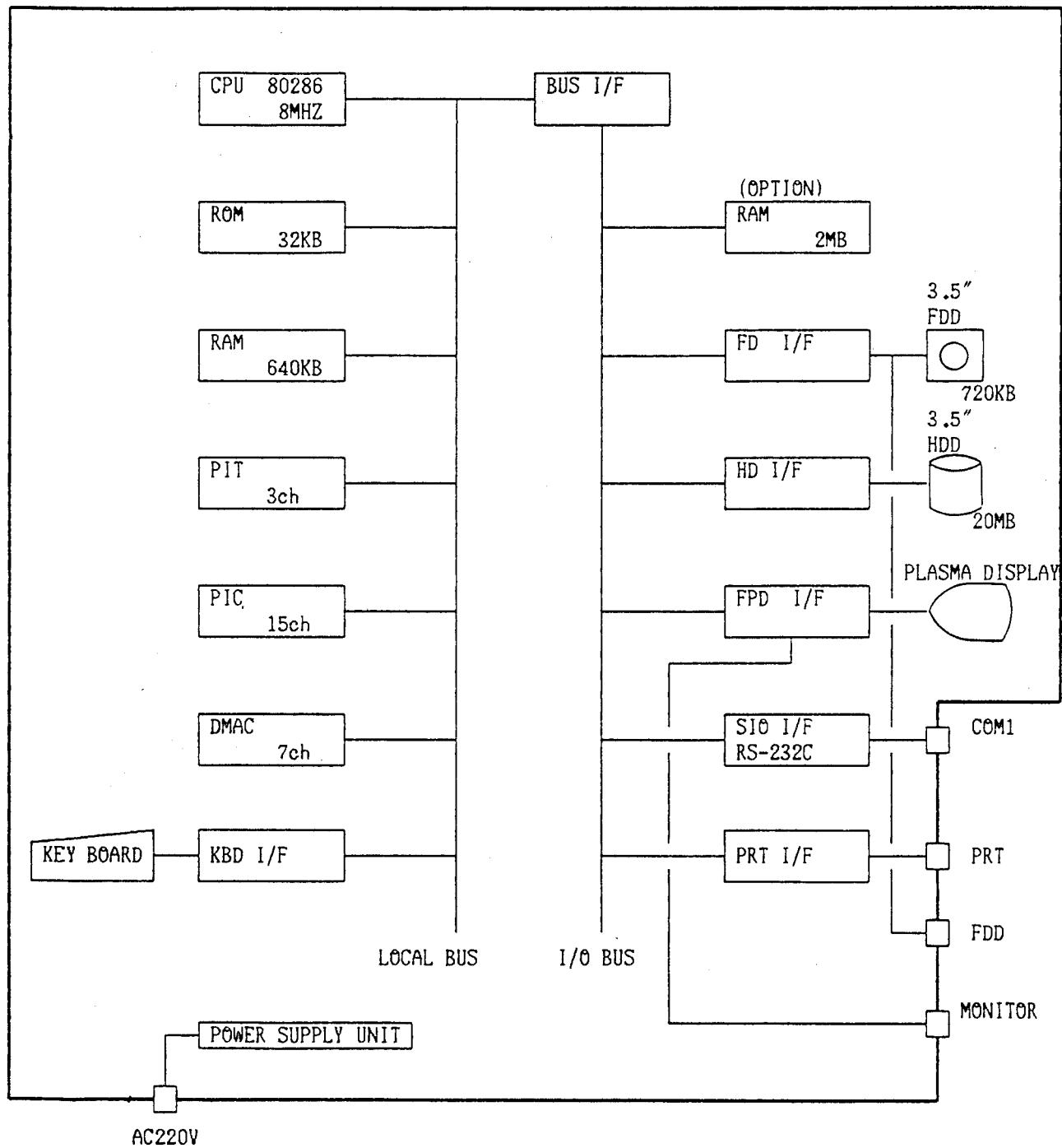


## FPD Interface

## Schematic diagram 1



## Block diagram



# Ersatzteilliste für PC 7640

## Parts list for PC 7640

Bestell-Nr. Part.-No.	Bezeichnung	Description	Zeich.-Pos. Ref.-No.	Preisgruppe
44 579 00	Frontrahmen kompl.	Front vezel assembly	1	E 9
44 582 00	Schild	Front inlay	2	B 6
44 654 00	Plasma Display	Plasma display	3	*
44 580 00	Gehäuse-Rückwand	Rear cover	4	D 2
44 651 00	LED-Platine	LED board	5	C 6
44 577 00	Gehäuse-Oberteil	Top cover	6	D 3
44 653 00	Netzteil	Power supply	7	H 5
44 656 00	Hard-Disc-Laufwerk	HDD	8	J 7
44 652 00	Tastatur	Keyboard	9	F 1
44 655 00	Floppy-Disc-Laufwerk	FDD	10	H 3
44 578 00	Gehäuse-Boden	Bottom cover	14	D 0
44 581 00	Bügel	Handle	15	B 4
44 013 00	Netzkabel	Cord AC	—	C 5
44 583 00	Faltkarton	Gift box	—	B 7
44 584 00	Karton	Carton	—	B 7

\* Preis auf Anfrage